

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION

BOARD ORDER NO. 6-95-121
WDID NO. 6B360304021

36-AA-0041

REVISED WASTE DISCHARGE REQUIREMENTS

FOR

TRONA-ARGUS CLASS III LANDFILL

San Bernardino County

The California Regional Water Quality Control Board, Lahontan Region (Regional Board) finds:

1. Discharger

On August 9, 1995 the County of San Bernardino submitted a complete revised Report of Waste Discharge for the Trona-Argus Class III Landfill. For the purpose of this Regional Board Order (Order), the County of San Bernardino is referred to as the "Discharger."

2. Facility

The Trona-Argus Class III Landfill is the facility that receives and stores waste. For the purposes of this Order, the Trona-Argus Class III Landfill is referred to as the "Landfill."

3. Order History

The Regional Board previously adopted Waste Discharge Requirements (WDRs) for the Landfill under Board Order No. 6-85-136, which was adopted on November 14, 1985. Board Order No. 6-93-10045 was adopted on September 9, 1993, and amended the WDRs to incorporate the requirements of Title 40, Code of Federal Regulations, Parts 257 and 258 (Subtitle D) as implemented in the State of California under State Water Resources Control Board (SWRCB) Resolution No. 93-62.

4. Reason for Action

The Regional Board is revising these WDRs to require the Discharger to achieve compliance with the revised requirements of Article 5, Chapter 15, Title 23, California Code of Regulations (Chapter 15).

5. Landfill Location

The Landfill is located approximately two miles northwest of the Communities of Trona and Argus, San Bernardino County, within Section 18, T25S, R43E, MDB&M, as shown on Attachment "A," which is made part of this Order.

11. Water Quality Protection Standard

The Water Quality Protection Standard consists of constituents of concern (including monitoring parameters), concentration limits, monitoring points, and the point of compliance. The standard applies over the active life of the Landfill, closure and post-closure maintenance period, and the compliance period. The constituents of concern, monitoring points, and point of compliance are described in Monitoring and Reporting Program No. 95-121, which is attached to and made a part of this Order.

12. Statistical Methods

Statistical analysis of monitoring data is necessary for the earliest possible detection of a statistically significant release of waste from the Landfill. The Chapter 15 and Subtitle D regulations require statistical data analysis. Monitoring and Reporting Program No. 95-121 includes general methods for statistical data analysis. This Order also includes a time schedule for the Discharger to submit site-specific statistical methods to be used for monitoring data analysis.

13. Detection Monitoring

Pursuant to Section 2550.8 of Chapter 15, Title 23, California Code of Regulations, the Discharger has proposed a detection monitoring program. The current detection monitoring program has been designed to monitor the ground water for evidence of a release. No evidence of a release has been noted to date. The existing detection monitoring system is described in Monitoring and Reporting Program No. 95-121.

14. Evaluation Monitoring

An evaluation monitoring program may be required, pursuant to Section 2550.9 of Chapter 15, Title 23, California Code of Regulations, to evaluate evidence of a release if detection monitoring and/or verification procedures indicate evidence of a release.

15. Corrective Action

A corrective action program (CAP) to remediate released wastes from the Landfill may be required pursuant to Section 2550.10 should results of an evaluation monitoring program warrant a CAP.

16. Site Geology

The Landfill is located on alluvial deposits of gravels and sands. Permeability of the soil ranges from moderate to high.

23. Financial Assurance

The Discharger has provided documentation that a financial assurance fund has been developed for closure, post-closure maintenance, and potential corrective action requirements. The fund has been developed as a single entity for all landfills owned and/or operated by the County of San Bernardino. The fund meets the requirements of Chapter 15 and Subtitle D for financial assurance. This Order requires the Discharger to report the amount of money available in the fund as part of the annual report. This Order also requires the Discharger to demonstrate in an annual report that the amount of financial assurance is adequate, or increase the amount of financial assurance. The Regional Board can access the closure financial assurance provided to the CIWMB. The CIWMB does not require financial assurance for potential releases.

24. Receiving Waters

The receiving waters are the ground waters of the of the Searles Valley Ground Water Basin (Department of Water Resources Hydrologic Unit No. 6-52).

25. Lahontan Basin Plan

The Regional Board adopted a Water Quality Control Plan for the Lahontan Region (Basin Plan) which became effective on March 31, 1995. This Order implements the Basin Plan.

26. Beneficial Ground Water Uses

The present and probable beneficial uses of the ground waters of Searles Valley Ground Water Basin as set forth and defined in the Basin Plan are:

- a. municipal and domestic supply; and
- b. industrial supply

27. California Environmental Quality Act

These WDRs govern an existing facility that the Discharger is currently operating. The project consists only of the continued operation of the Landfill and is therefore exempt from the provisions of the California Environmental Quality Act (CEQA) (Public Resources Code Section 21000 et seq.) in accordance with Section 15301 of the CEQA Guidelines.

28. Notification of Interested Parties

The Regional Board has notified the Discharger and all known interested agencies and persons of its intent to adopt revised WDRs for the project.

7. The exterior surfaces of the disposal site shall be graded to promote lateral runoff of precipitation and to prevent ponding.
8. Water used for dust control during disposal site operations shall be limited to a minimal amount. A "minimal amount" is defined as that amount which will not result in runoff.
9. Wastes other than inert wastes shall not be placed in ponded water from any source whatsoever.
10. No hazardous or designated wastes shall be discharged at the Landfill.
11. The discharge of wastes in a manner that does not maintain a five foot soil separation between the wastes and the seasonal high ground water elevation is prohibited.
12. Waste discharged to the Landfill shall have a solids content of 50 percent by weight or greater.
13. The Discharger shall remove and relocate any waste which is or has been discharged at the disposal site in violation of these requirements. The waste shall be relocated to a site which is permitted to receive such wastes. All removal and relocation projects shall be coordinated with regulatory agencies, including the County of San Bernardino.
14. During periods of precipitation, the disposal activity shall be confined to the smallest area possible based on the anticipated quantity of wastes.
15. At closure, all facilities must be closed in accordance with a final CPCMP approved by the Regional Board.
16. At any given time, the concentration limit for each constituent of concern shall be equal to the background value of that constituent.
17. The concentration limit for each constituent of concern shall not be exceeded.

B. Detection Monitoring Program

The Discharger shall maintain a detection monitoring program as required in Section 2550.1(a)(1) of Chapter 15.

3. The Discharger shall either conduct a composite retest using data from the initial sampling event with all data obtained from the resampling event or shall conduct a discrete retest in which only data obtained from the resampling event shall be analyzed in order to verify evidence of a release.
4. The Discharger shall report to the Regional Board by certified mail the results of the verification procedure, as well as all concentration data collected for use in the retest, within seven days of the last laboratory analysis.
5. The Discharger shall determine, within 45 days after completion of sampling, whether there is statistically significant evidence of a release from the Landfill at each monitoring point. If there is statistically significant evidence of a release, the Discharger shall immediately notify the Regional Board by certified mail. The Executive Officer may make an independent finding that there is statistical evidence of a release.
6. If the Discharger or Executive Officer verifies evidence of a release, the Discharger is required to submit, within 90 days of a determination that there is or was a release, a technical report pursuant to Section 13267(b) of the California Water Code. The report shall propose an evaluation monitoring program OR make a demonstration to the Regional Board that there is a source other than the Landfill that caused evidence of a release.

D. Technical Report Without Verification Procedures

If the Discharger chooses not to initiate verification procedures, a technical report shall be submitted pursuant to Section 13267(b) of the California Water Code. The report shall propose an evaluation monitoring program, OR, attempt to demonstrate that the release did not originate from the Landfill.

IV. PROVISIONS

A. Rescission of Waste Discharge Requirements

Board Orders No. 6-85-136 and 6-93-10045 are hereby rescinded.

B. Standard Provisions

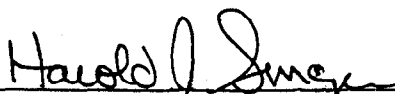
The Discharger shall comply with the "Standard Provisions for Waste Discharge Requirements," dated September 1, 1994, in Attachment "C", which is made part of this Order.

V. TIME SCHEDULE

Preliminary Closure and Post-Closure Maintenance Plan

By **June 1, 1996**, the Discharger shall submit a technically adequate Preliminary CPCMP accordance with Chapter 15 of Calif. Code of Regs., Title 14 of Calif. Code of Regs., and Subtitle D of Code of Federal Regulations.

I, Harold J. Singer, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Lahontan Region, on November 9, 1995.



HAROLD J. SINGER
EXECUTIVE OFFICER

- Attachments:
- A. Location and Topography Map
 - B. Landfill Footprint of Waste
 - C. Standard Provisions for Waste Discharge Requirements



Trona-Argus Class III Landfill

Attachment "A"
Trona-Argus Class III Landfill
Section 18, T25S,R43E, MDB&M
Searles Lake and Trona 15 Minute Quadrangle

ATTACHMENT "B"

EXISTING FOOTPRINT OF WASTE AS OF APRIL 4, 1994

ONLY IN ORIGINAL BOARD ORDER

Attachment "C"
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

STANDARD PROVISIONS
FOR WASTE DISCHARGE REQUIREMENTS

1. Inspection and Entry

The Discharger shall permit Regional Board staff:

- a. to enter upon premises in which an effluent source is located or in which any required records are kept;
- b. to copy any records relating to the discharge or relating to compliance with the Waste Discharge Requirements;
- c. to inspect monitoring equipment or records; and
- d. to sample any discharge.

2. Reporting Requirements

- a. Pursuant to California Water Code 13267(b), the Discharger shall immediately notify the Regional Board by telephone whenever an adverse condition occurred as a result of this discharge; written confirmation shall follow within two weeks. An adverse condition includes, but is not limited to, spills of petroleum products or toxic chemicals, or damage to control facilities that could affect compliance.
- b. Pursuant to California Water Code Section 13260(c), any proposed material change in the character of the waste, manner or method of treatment or disposal, increase of discharge, or location of discharge, shall be reported to the Regional Board at least 120 days in advance of implementation of any such proposal. This shall include, but not limited to, all significant soil disturbances.
- c. The Owners/Discharger of property subject to Waste Discharge Requirements shall be considered to have a continuing responsibility for ensuring compliance with applicable Waste Discharge Requirements in the operations or use of the owned property. Pursuant to California Water Code Section 13260(c), any change in the ownership and/or operation of property subject to the Waste Discharge Requirements shall be reported to the Regional Board. Notification of applicable Waste Discharge Requirements shall be furnished in writing to the new owners and/or operators and a copy of such notification shall be sent to the Regional Board.
- d. If a Discharger becomes aware that any information submitted to the Regional Board is incorrect, the Discharger shall immediately notify the Regional Board, in writing and correct that information.
- e. Reports required by the Waste Discharge Requirements, and other information requested by the Regional Board, must be signed by a duly authorized representative of the Discharger. Under Section 13268 of the California Water Code, any person failing or refusing to furnish technical or monitoring reports, or falsifying any information provided therein, is guilty of a misdemeanor and may be liable civilly in an amount of up to one thousand dollars (\$1,000) for each day of violation.

10. Availability

A copy of the Waste Discharge Requirements shall be kept and maintained by the Discharger and be available at all times to operating personnel.

11. Severability

Provisions of the Waste Discharge Requirements are severable. If any provision of the requirements is found invalid, the remainder of the requirements shall not be affected.

12. Public Access

General public access shall be effectively excluded from disposal/treatment facilities.

13. Transfers

Providing there is no material change in the operation of the facility, this Order may be transferred to a new owner or operator. The owner/operator must request the transfer in writing and receive written approval from the Regional Board's Executive Officer.

14. Definitions

- a. "Surface waters" as used in this Order, include, but are not limited to, live streams, either perennial or ephemeral, which flow in natural or artificial water courses and natural lakes and artificial impoundments of waters. "Surface waters" does not include artificial water courses or impoundments used exclusively for wastewater disposal.
- b. "Ground waters" as used in this Order, include, but are not limited to, all subsurface waters being above atmospheric pressure and the capillary fringe of these waters.

15. Storm Protection

- a. All facilities used for collection, transport, treatment, storage, or disposal of waste shall be adequately protected against overflow, washout, inundation, structural damage or a significant reduction in efficiency resulting from a storm or flood having a recurrence interval of once in 100 years.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION

MONITORING AND REPORTING PROGRAM NO. 95-121
WDID NO. 6B360304021

FOR

TRONA-ARGUS CLASS III LANDFILL

San Bernardino County

I. WATER QUALITY PROTECTION STANDARD

A. Ground Water

1. Point of Compliance and Monitoring Points

The Point of Compliance as defined in Chapter 15 is "a vertical surface located at the hydraulically downgradient limit of the waste management unit that extends through the uppermost aquifer underlying the unit." Ground water monitoring wells have been installed at monitoring points upgradient of the Landfill and at the Point of Compliance as part of the detection monitoring program. The locations of the ground water monitoring wells are illustrated on Attachment "A," which is made part of this Monitoring and Reporting Program.

2. Monitoring Parameters and Constituents of Concern

The monitoring parameters are the metal surrogates chloride, sulfate, nitrate as nitrogen, total dissolved solids, and volatile organic constituents. The constituents of concern are the monitoring parameters and the constituents listed in Appendix II to Part 258 of 40 CFR.

3. Concentration Limits

- a. The Discharger has collected background water quality data for the monitoring parameters contained in this Monitoring and Reporting Program. Background water quality data for all constituents of concern have not been collected. The WDRs include a time schedule to submit a complete Water Quality Protection Standard, which includes concentration limits that define background water quality for all constituents of concern.
- b. The concentration limit for each man-made organic constituent which is not proven to have originated from a source other than the Landfill is the laboratory detection limit for that constituent.

2. Aquifer Characteristics

The parameters listed in Table 1 shall be calculated and reported in graphic and tabular form semi-annually.

Table No. 1 - Ground Water Field Measurements

<u>Parameter</u>	<u>Units</u>
Depth to Ground Water	feet bgs
Static Water Level	feet above mean sea level
Electrical Conductivity	micromhos/cm
pH	pH Units
Temperature	deg. F or C
Turbidity	NTUs

Ground Water Calculations

<u>Parameter</u>	<u>Units</u>
Slope of Ground Water	ft/mile
Direction of Ground	
Water Gradient	degrees
Velocity of Ground	
Water Flow	feet/year

3. Unsaturated Zone

a. Monitoring Points

The unsaturated zone monitoring system at the Landfill currently consists of lysimeters and soil gas monitoring wells. The lysimeters and soil gas monitoring well locations are shown on Attachment "A" of this Monitoring and Reporting Program.

b. Monitoring Parameters and Constituents of Concern

The monitoring parameters and constituents of concern for lysimeter liquids shall be the same as for ground water. The monitoring parameters for soil gas shall be the gases methane, carbon dioxide, oxygen, and nitrogen. The constituents of concern for soil gases shall be the monitoring parameters and the volatile organic constituents listed under the laboratory analytical method EPA 8260.

- c. A letter transmitting the essential points in each report shall accompany each report. The letter shall include a discussion of any requirement violations found since the last report was submitted, and shall describe actions taken or planned for correcting those violations.
- d. If the Discharger has previously submitted a detailed time schedule for correcting requirement violations, a reference to the correspondence transmitting this schedule will be satisfactory. If no violations have occurred since the last submittal, this shall be stated in the letter of transmittal.
- e. For each monitored ground water body, a description and graphical presentation of the velocity and direction of ground water flow under/around the Unit, based upon water level elevations taken during the collection of the water quality data submitted in the report.
- f. A map or aerial photograph showing the locations of vadose zone and ground water monitoring points.

B. Unscheduled Reports To Be Filed With The Regional Board

The following reports shall be submitted to the Regional Board as specified below.

1. Notice of Evidence of a Release

Should the appropriate statistical or non-statistical data analysis indicate that there is evidence of a release, the Discharger shall:

- a. Immediately notify the Regional Board verbally as to the monitoring point(s) and constituent(s) or parameter(s) involved;
- b. Provide written notification by certified mail within seven days of such determination (Section 2550.8(j)(1), Article 5, Chapter 15, Title 23, California Code of Regulations). The notification should indicate the Discharger's intent to conduct verification sampling, initiate evaluation monitoring procedures, or demonstrate that a source other than the Landfill is responsible for the release.
- c. If the Discharger chooses to attempt to demonstrate that a source other than the Landfill is responsible for the release, the Discharger shall submit a supporting technical report within 90 days of detection of the release.

6A-9C/06-92

DRAWING NUMBER

2/2/95

CHECKED BY

2-15-95

APPROVED BY

N

RV

E3

1633.70

1600

1580

1560

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1520

1500

1480

1460

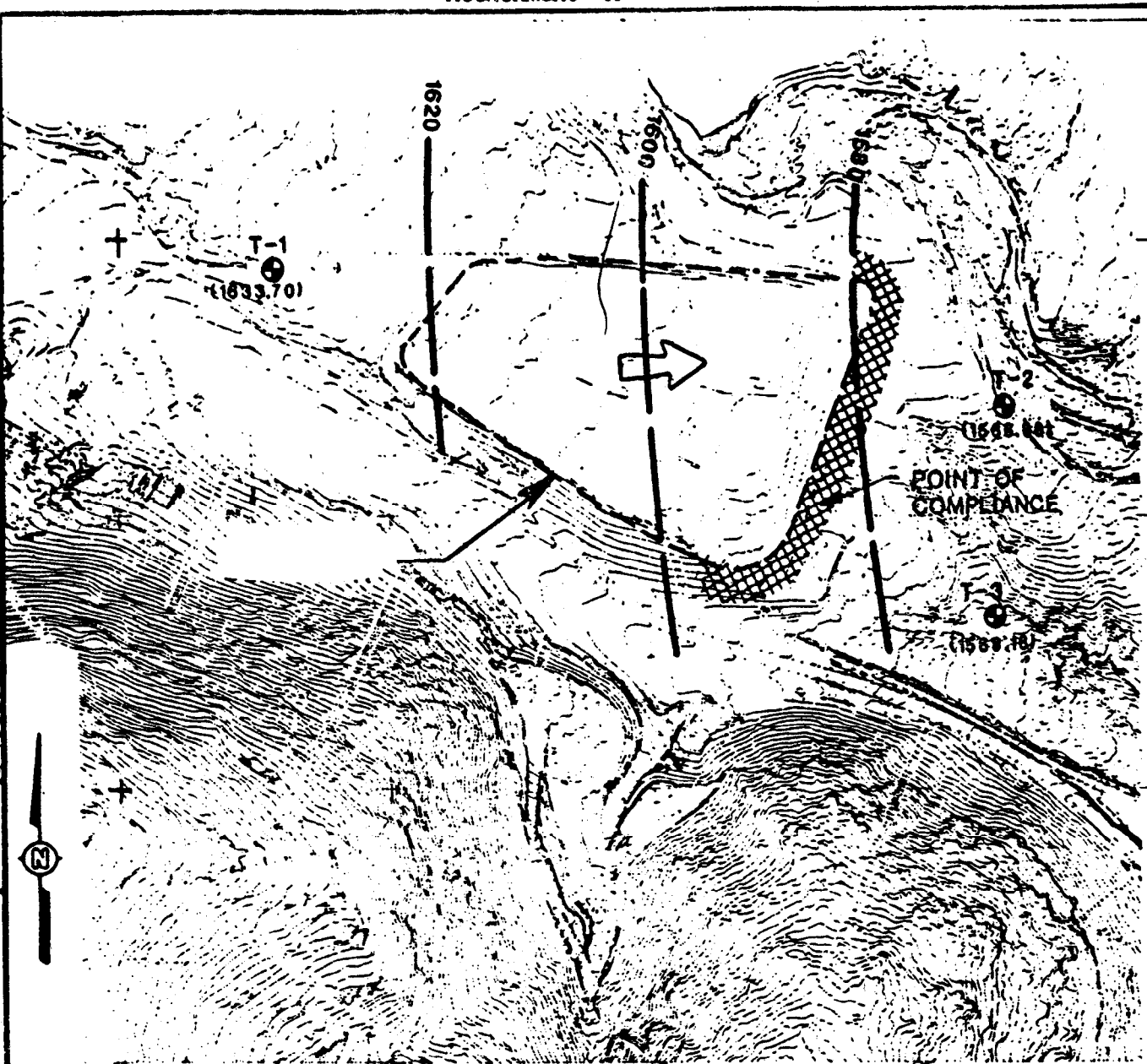
1440

1420

1400

1380

1360



SCALE

0 300 600 FEET

EXPLANATION:

T-1 ● MONITORING WELL LOCATION (GROUNDWATER
(1633.70) ELEVATION IN FEET ABOVE MEAN SEA LEVEL)

1620 — GROUNDWATER ELEVATION CONTOUR
(CONTOUR INTERVAL = 20 FEET)

➔ DIRECTION OF GROUNDWATER FLOW

REFERENCE:

PICTORIAL SCIENCES INC.
AERIAL PHOTOGRAPHY DATE: 1983
PHOTOREVISED 7-27-87 SCALE: 1" = 100'

FIGURE 6
GROUNDWATER ELEVATION
CONTOUR MAP
(4-6-92)
TRONA-ARGUS SANITARY LANDFILL

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION

GENERAL PROVISIONS
FOR MONITORING AND REPORTING

1. SAMPLING AND ANALYSIS

- a. All analyses shall be performed in accordance with the current edition(s) of the following documents:
 - i. Standard Methods for the Examination of Water and Wastewater
 - ii. Methods for Chemical Analysis of Water and Wastes, EPA
- b. All analyses shall be performed in a laboratory certified to perform such analyses by the California State Department of Health Services or a laboratory approved by the Regional Board. Specific methods of analysis must be identified on each laboratory report.
- c. Any modifications to the above methods to eliminate known interferences shall be reported with the sample results. The method used shall also be reported. If methods other than USEPA approved methods or Standard Methods are used, the exact methodology must be submitted for review and must be approved by the Regional Board prior to use.
- d. The Discharger shall establish chain-of-custody procedures to ensure that specific individuals are responsible for sample integrity from commencement of sample collection through delivery to an approved laboratory. Sample collection, storage and analysis shall be conducted in accordance with an approved Sampling and Analysis Plan (SAP). The most recent version of the approved SAP shall be kept at the facility.
- e. The Discharger shall calibrate and perform maintenance procedures on all monitoring instruments and equipment to ensure accuracy of measurements, or shall ensure that both activities will be conducted. The calibration of any wastewater flow measuring device shall be recorded and maintained in the permanent log book described in 2.b, below.
- f. A grab sample is defined as an individual sample collected in fewer than 15 minutes.
- g. A composite sample is defined as a combination of no fewer than eight individual samples obtained over the specified sampling period at equal intervals. The volume of each individual sample shall be proportional to the discharge flow rate at the time of sampling. The sampling period shall equal the discharge period, or 24 hours, whichever period is shorter.

- iii. In the case of a sole proprietorship, by the proprietor;
 - iv. In the case of a municipal, state or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.
- e. Monitoring reports are to include the following:
- i. Name and telephone number of individual who can answer questions about the report.
 - ii. The Monitoring and Reporting Program Number.
 - iii. WDID Number.
- f. Modifications

This Monitoring and Reporting Program may be modified at the discretion of the Regional Board Executive Officer.

4. NONCOMPLIANCE

Under Section 13268 of the Water Code, any person failing or refusing to furnish technical or monitoring reports or falsifying any information provided therein, is guilty of a misdemeanor and may be liable civilly in an amount of up to one thousand dollars (\$1,000) for each day of violation under Section 13268 of the Water Code.